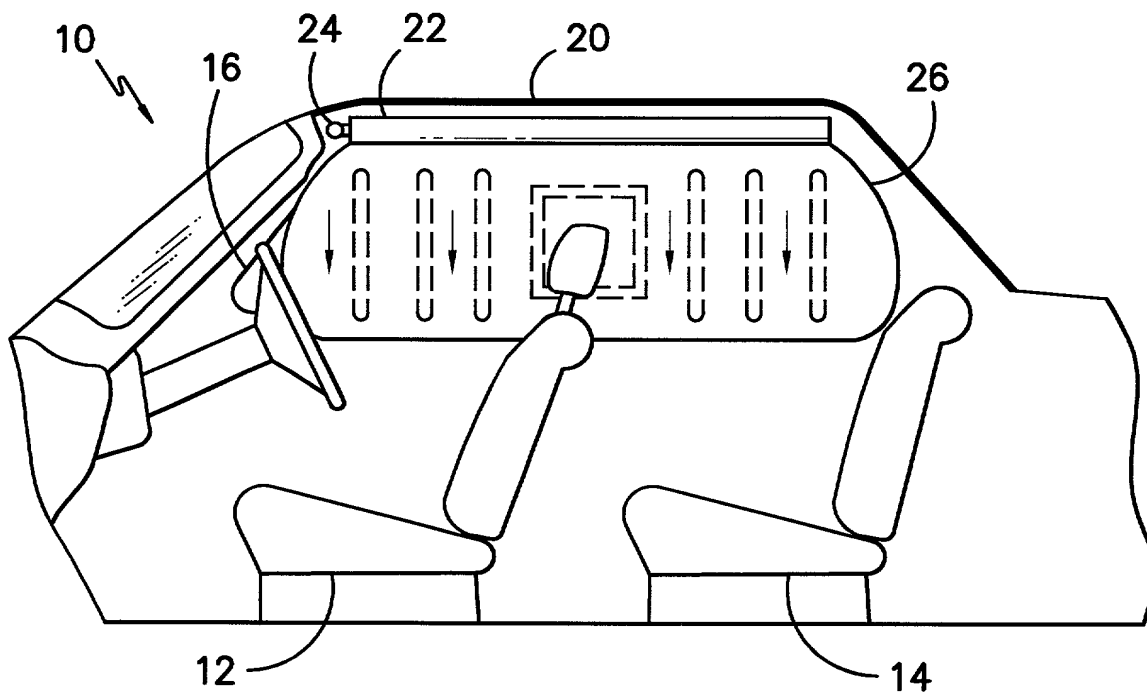
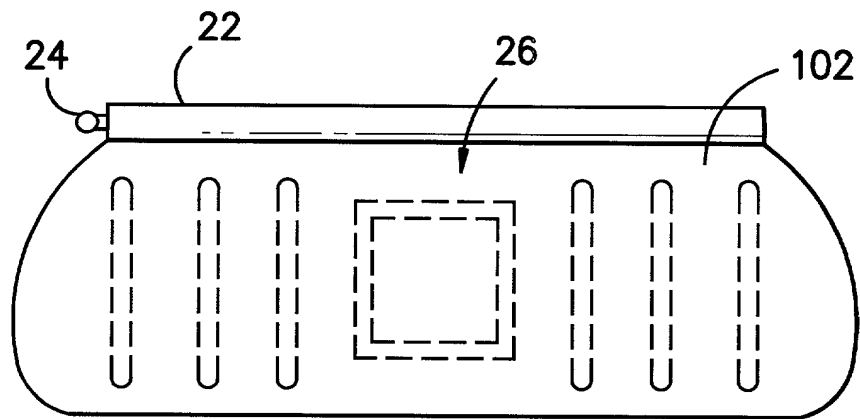


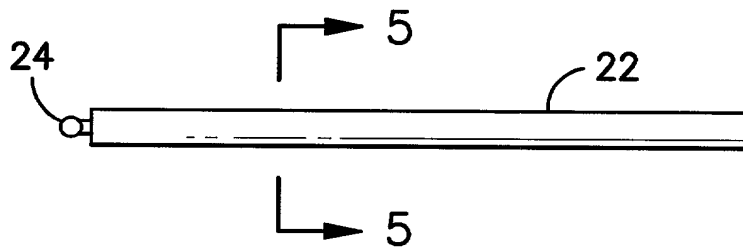
*FIG. -1-*



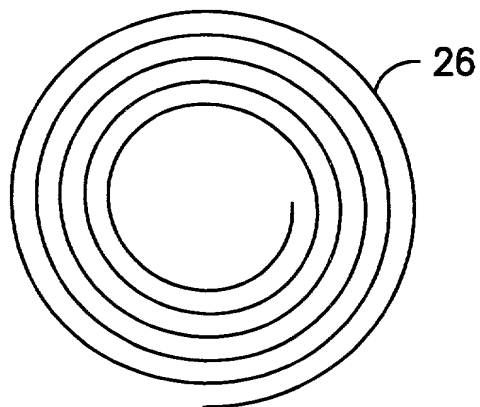
*FIG. -2-*



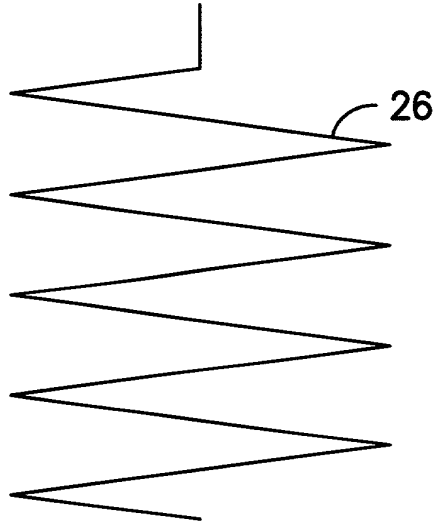
*FIG. -3-*



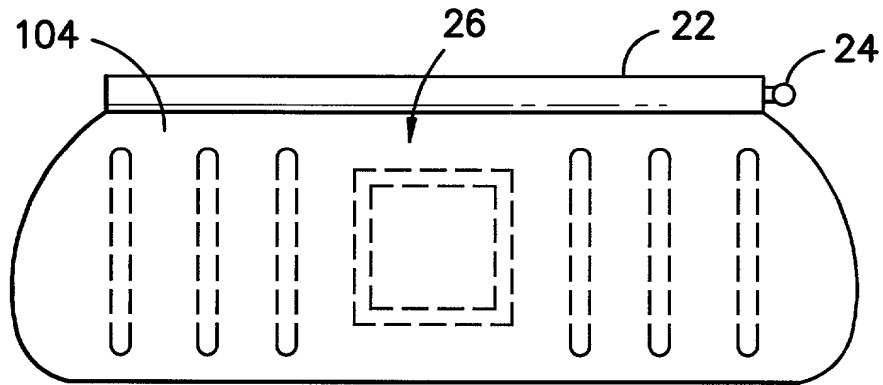
*FIG. -4-*



*FIG. -5A-*



*FIG. -5B-*



*FIG. -6-*

# RESISTANCE TO ABRASION AND PUNCTURE HAZARDS ABRASION TESTING

TEST MEDIA  
- ROADSIDE GRAVEL

TEST METHOD  
- INFLATE TEST BAG TO 10 psi.  
- PLACE TEST BOARD ON INFLATED  
BAG AND LOAD WITH A 13 lb.  
CONCRETE BLOCK.  
- SCRUB GRAVEL BOARD ACROSS BAG  
AT 1 cycle / second

TEST MEASUREMENT  
- MEASURE FLOW RATE REQUIRED TO  
MAINTAIN BAG PRESSURE AT 10 psi.

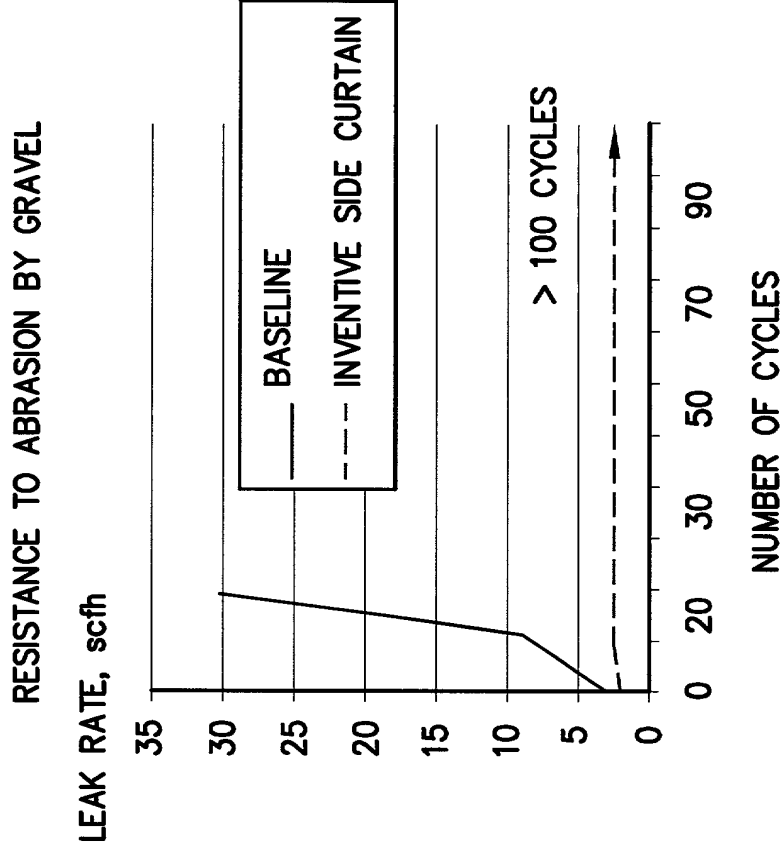


FIG. -7-

# RESISTANCE TO ABRASION AND PUNCTURE HAZARDS ABRASION TESTING

TEST MEDIA  
- CONCRETE

TEST METHOD

- INFLATE TEST BAG TO 10 psi.
- PLACE CONCRETE BLOCK ON INFLATED BAG
- SCRUB CONCRETE BLOCK ACROSS BAG AT 1 cycle / second

TEST MEASUREMENT

- MEASURE FLOW RATE REQUIRED TO MAINTAIN BAG PRESSURE AT 10 psi.

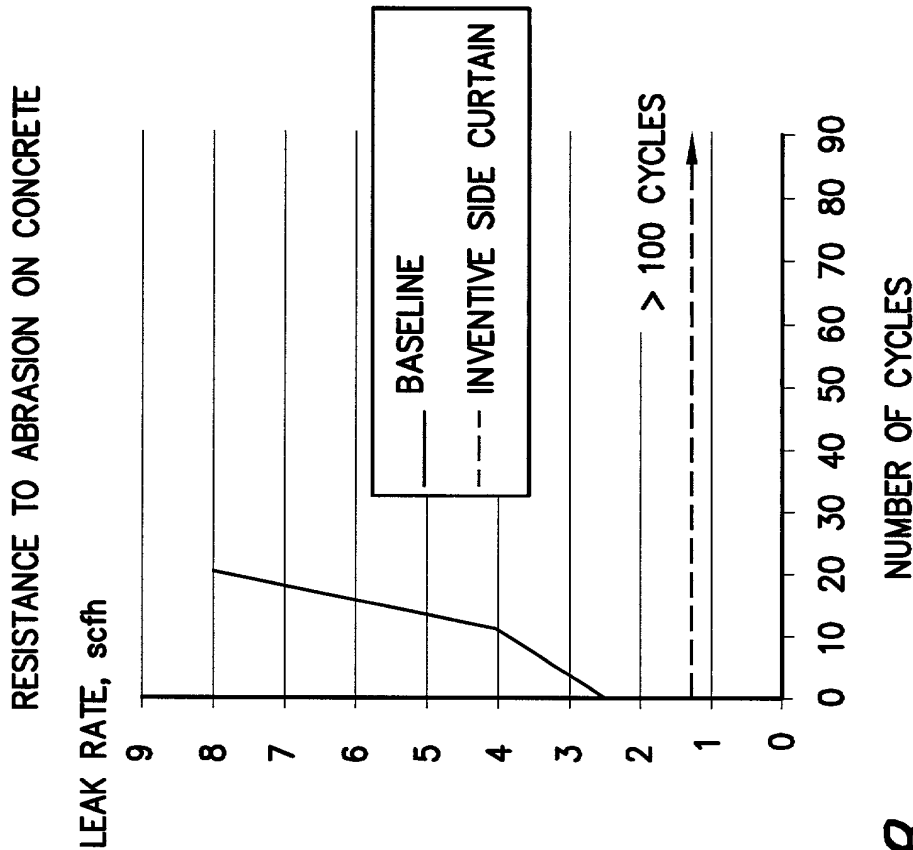


FIG. -8-

# RESISTANCE TO ABRASION AND PUNCTURE HAZARDS PUNCTURE TESTING

- TEST MEDIA
- SHARDS OF SIDE WINDOW GLASS
- TEST METHOD
- DEPLOY TEST BAG TO 30 psi AGAINST PLATE COVERED WITH BROKEN GLASS.
  - DROP 25 lb WEIGHT ON PLATE AS BAG REACHES FULL INFLATION.
- TEST MEASUREMENT
- MEASURE TIME TO FALL FROM 30 psi TO 15 psi.

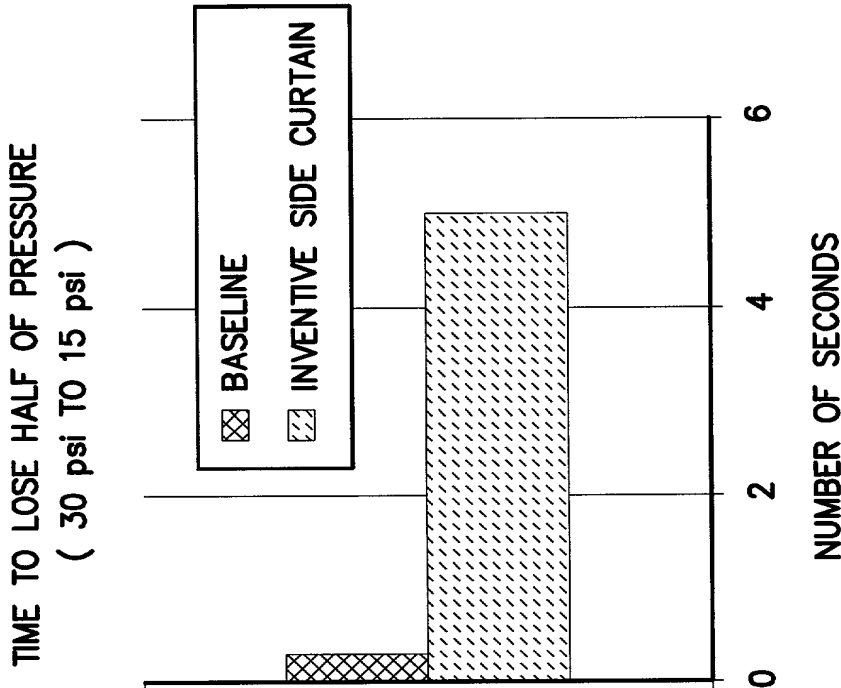


FIG. -9-

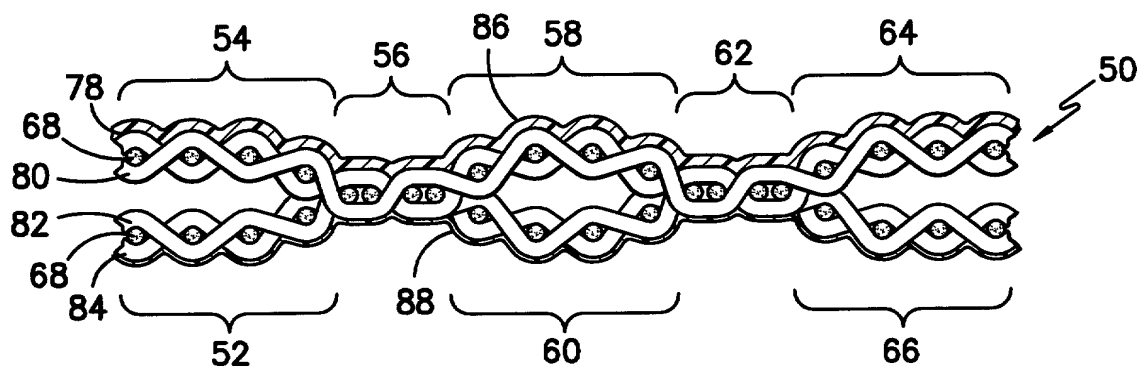


FIG. -10-

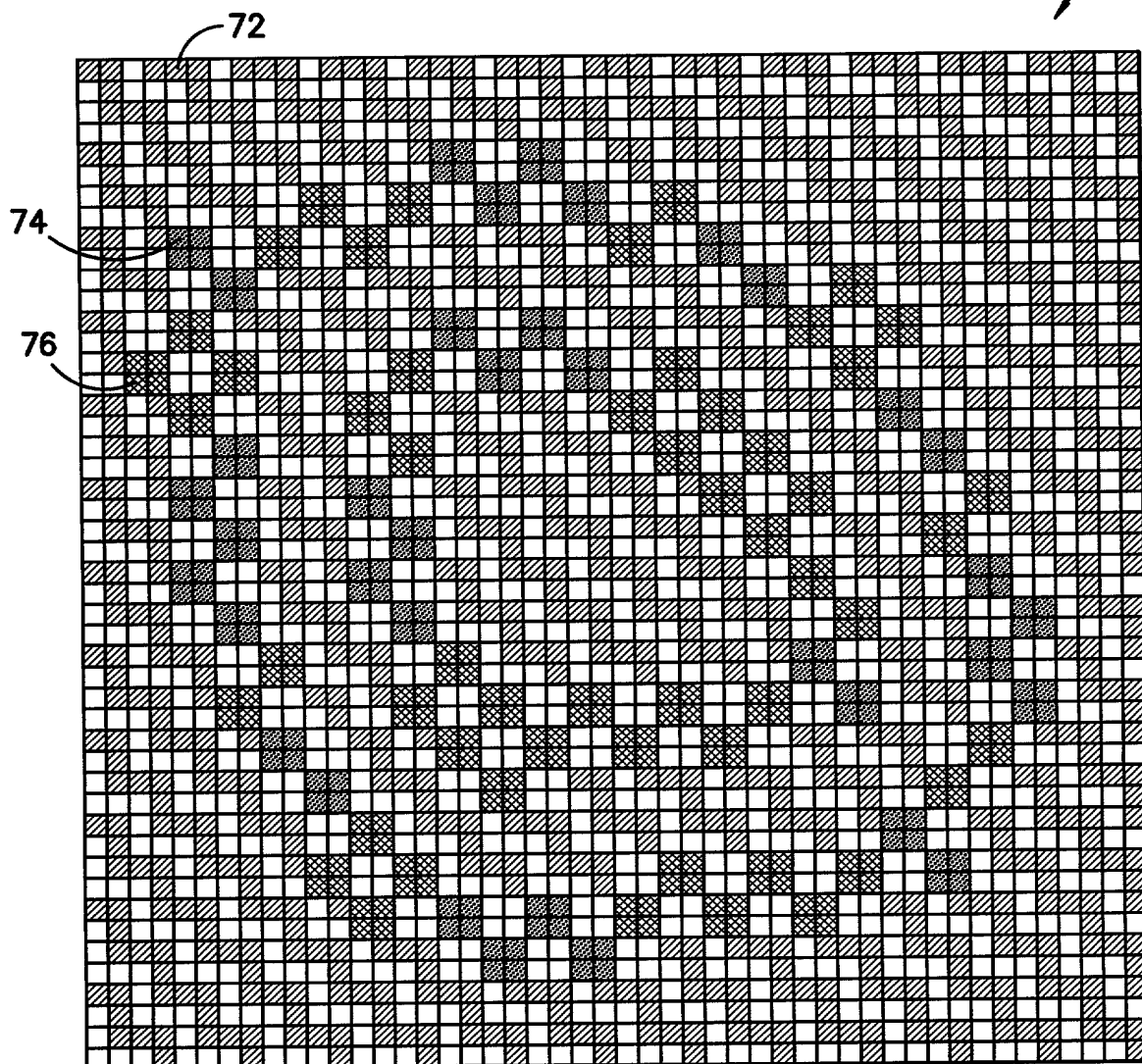
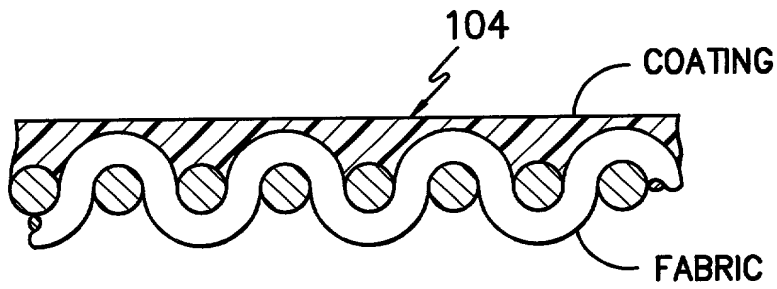
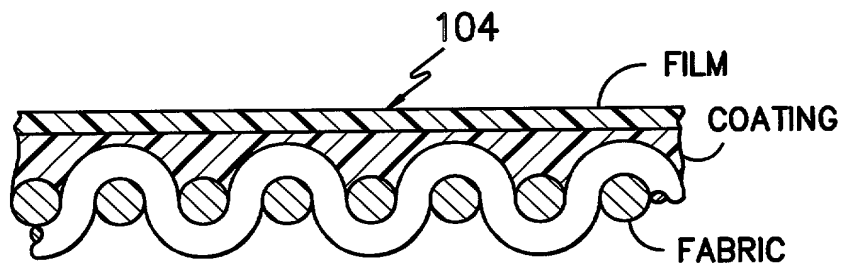


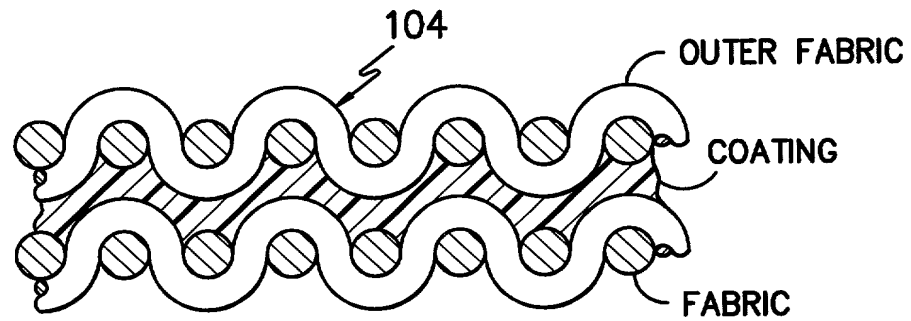
FIG. -11-



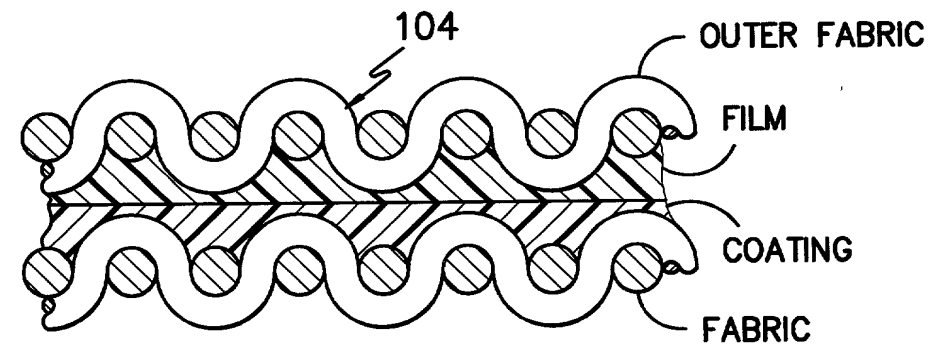
*FIG. -12A-*



*FIG. -12B-*

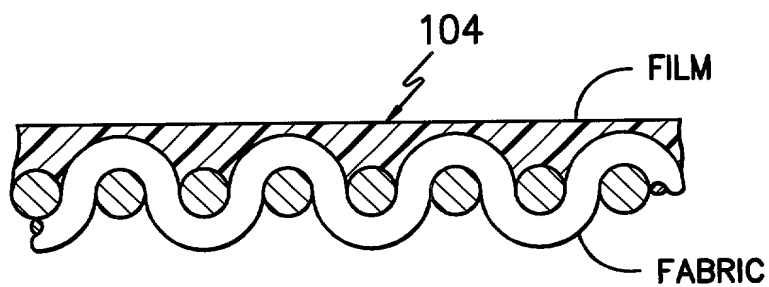


*FIG. -12C-*

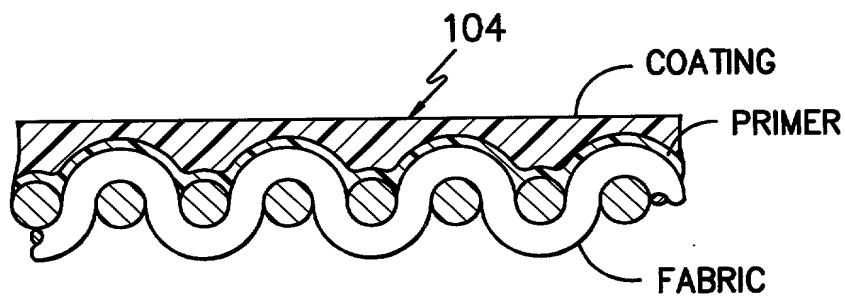


*FIG. -12D-*

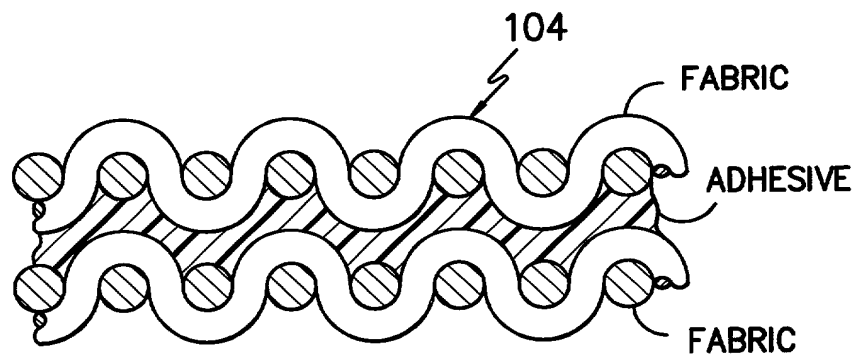




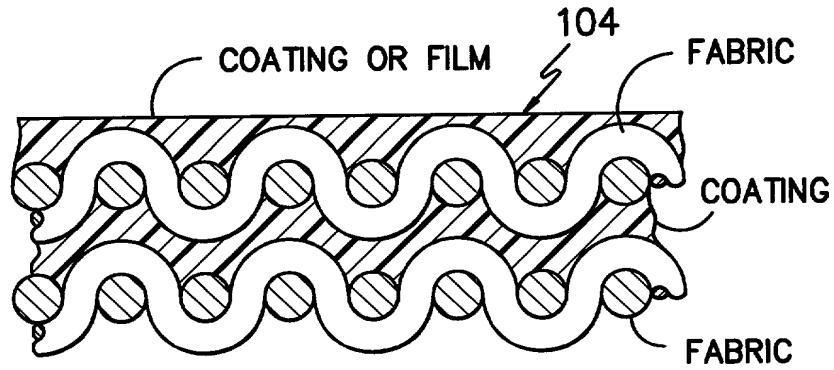
*FIG. -12E-*



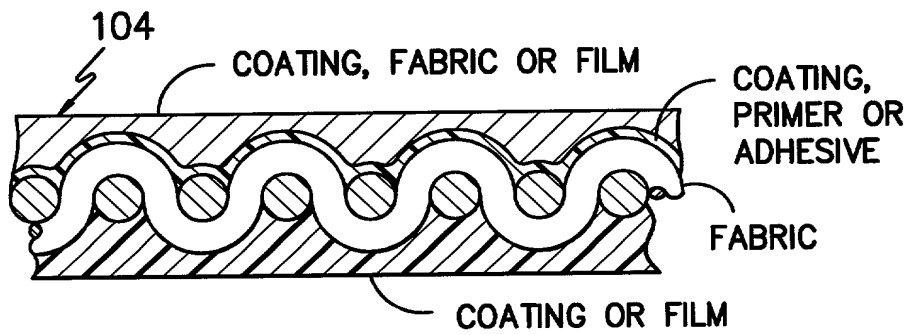
*FIG. -12F-*



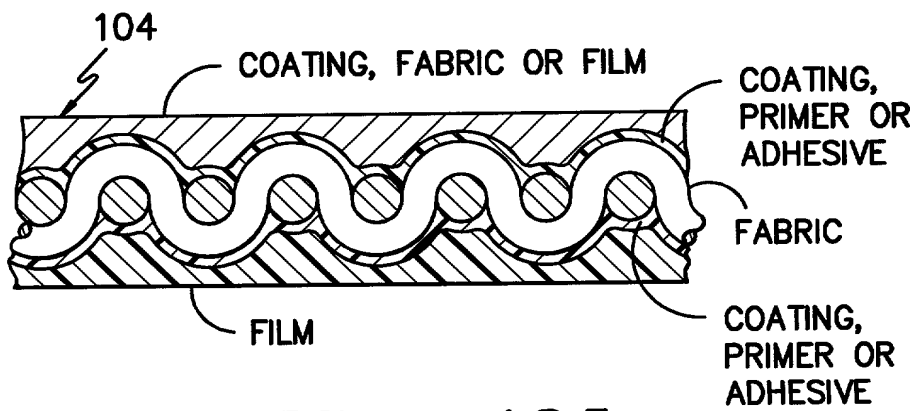
*FIG. -12G-*



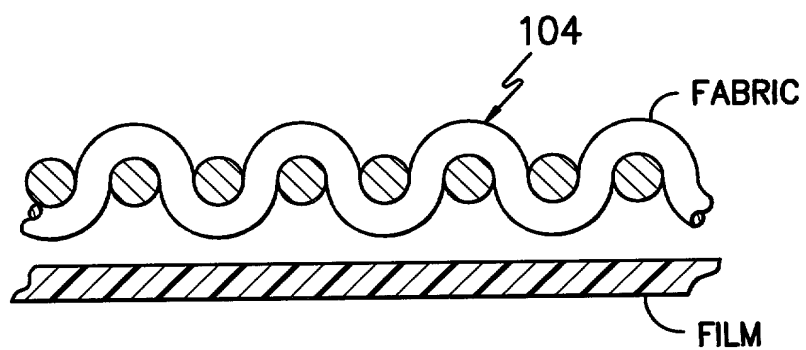
*FIG. -12H-*



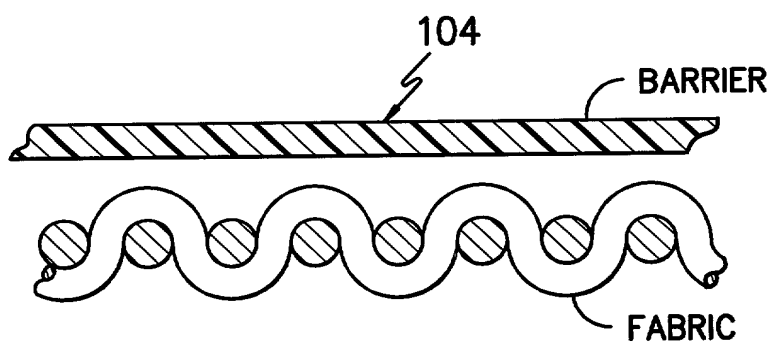
*FIG. -12I-*



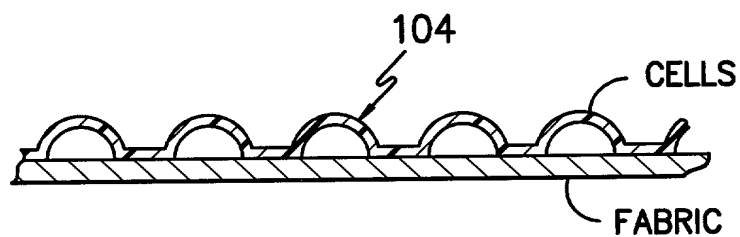
*FIG. -12J-*



*FIG. -12K-*



*FIG. -12L-*



*FIG. -12M-*